

# 50CC SKY LINK



## 50cc gasoline engine

**Requires : 6-channel radio w/ 9 high torque servos**

### Specifications

<b>Wing Span</b>	<b>108 in / 2745 mm</b>
<b>Wing Area</b>	<b>1575 sq in / 101.6 sq dm</b>
<b>Flying Weight</b>	<b>21 lb / 9.5 kg</b>
<b>Fuselage Length</b>	<b>84.5 in / 2145 mm</b>

\*Specifications are subject to change without notice.\*

**Warning! This model is not a toy.**

It is designed for maximum performance. Please seek advice if one is not familiar with this kind of engine powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing. Always keep this instruction manual at hand for quick reference.



The World Models  
Manufacturing Co., LTD.  
www.theworldmodels.com

**FACTORY PRE-FABRICATED  
ALMOST-READY-TO-FLY(ARF)SERIES  
MADE IN CHINA**

# 50CC SKY LINK

## INDEX

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### BEFORE YOU BEGIN

- 1 Read through the manual before you begin, so you will have an overall idea of what to do.
- 2 Check all parts. If you find any defective or missing parts contact your local dealer. Please DRY FIT and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts, but will not extend to the parts that are good before gluing to defective parts during assembly. Warranty will not cover any parts modified by customer.
- 3 Symbols used throughout this instruction manual comprise of the following :-



Apply epoxy glue.



Apply instant glue  
(C.A.glue, super glue.)



Apply thread locker



Must be purchased separately !



Assemble left and right  
sides the same way.



Ensure smooth non-binding  
movement while assembling.



Peel off shaded portion  
covering film.



Cut off shaded portion.



Drill holes with the specified  
diameter (here: 3mm).



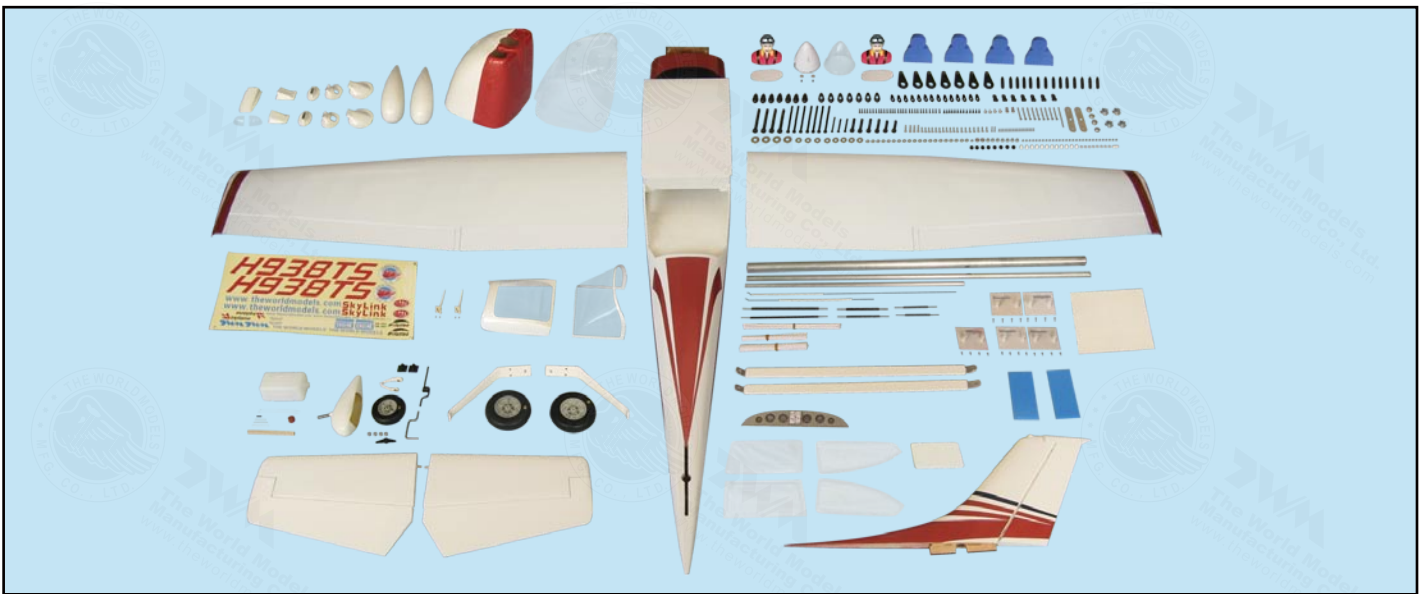
Pierce the shaded portion  
covering film.



Pay close attention here!



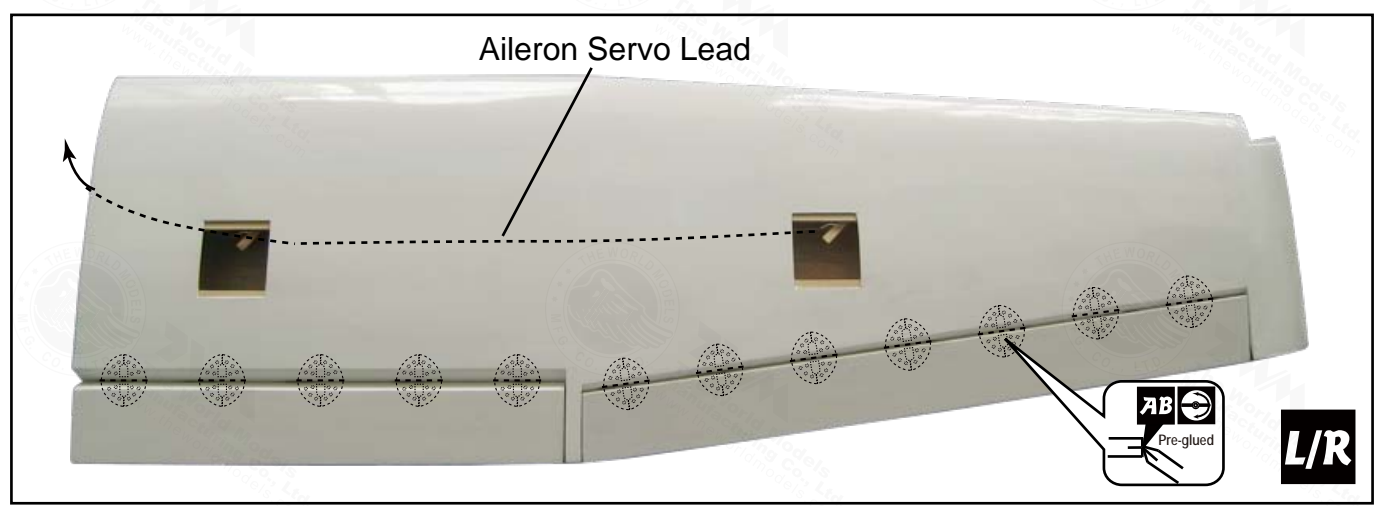
Do not overlook this symbol !



## Parts List

1. MAIN WING -- 1 pair
  2. SOCKET HEAD SCREW M4x60mm -- 4 pcs  
SCREW PWA2x8mm -- 24 pcs  
M4 NYLON INSERT LOCK NUT -- 4 pcs  
PUSHROD M3x95mm w/ Threads(For Aileron) -- 2 pcs  
PUSHROD M3x95mm w/ Threads(For Flap) -- 2 pcs  
HEAVY DUTY CLEVIS PL4112200 -- 8 sets  
HEAVY DUTY HORN BRACKET PL4112400 -- 4 sets  
HEAVY DUTY SERVO HORN PL4120300 -- 4 sets  
SWIVEL CLEVIS HORN FAIRING PL4610010 -- 4 sets  
SERVO MOUNTING PANEL PL5310010(For Aileron) -- 1 pair  
SERVO MOUNTING PANEL PL5310010(For Flap) -- 2 pcs  
LAMP COVER 0.5mm PVC -- 1 pair
  3. STABILIZER & ELEVATOR -- 1 set  
FUSELAGE -- 1 pc.  
SCREW PA3x12mm -- 2 pcs  
WASHER d3xD7mm -- 2 pcs  
STABILIZER TUBE Ø9.6x521mm -- 1 pc.
  4. SOCKET HEAD SCREW M4x55mm -- 2 pcs  
M4 NYLON INSERT LOCK NUT -- 2 pcs  
PUSHROD M3x185mm w/ Threads (For Elevator) -- 2 sets  
HEAVY DUTY CLEVIS PL4112200 -- 4 sets  
HEAVY DUTY SERVO HORN PL4120300 -- 2 sets  
SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets  
HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets
  5. VERTICAL FIN & RUDDER -- 1 set  
VERTICAL FIN'S WING 6x65x85mm -- 1 pc.
  6. SOCKET HEAD SCREW M4x60mm -- 1 pc.  
M4 NYLON INSERT LOCK NUT -- 1 pc.  
SWIVEL CLEVIS HORN FAIRING PL4610020 -- 1 set  
HEAVY DUTY CLEVIS PL4112200 -- 2 sets  
HEAVY DUTY SERVO HORN PL4120300 -- 1 set  
HEAVY DUTY HORN BRACKET PL4112400 -- 1 set  
SERVO MOUNTING PANEL PL5310010(For Rudder) -- 1 PC.  
PUSHROD M3x45mm w/ Threads(For Rudder) -- 1 pc.  
SCREW PWA2x8mm -- 4 pcs
  7. FRONT LANDING GEAR -- 1 set  
COLLAR Ø5.6mm w/ set screw -- 4 sets  
WHEEL PANTS -- 1 pc.  
LARGE SCALE TREADED INFLATABLE WHEEL Ø100mm -- 1 pc.  
STEERING ARM PL4112506 w/ set screw -- 1 set  
FRONT GEAR ABSORBER ACCESSORY -- 1 set  
PUSHROD Ø1.8x285mm (For Nose Wheel Steering) -- 1 pc.  
PLASTIC TUBE d2.5xD4x160mm (For Nose Wheel Steering) -- 1 pc.  
SCREW PA3x25mm -- 4 pcs  
SCREW PA3x30mm -- 4 pcs  
NOSE GEAR BLOCK PL4116042 -- 2 pcs
  8. MAIN LANDING GEAR -- 1 pair  
MAIN LANDING GEAR COVER -- 1 pair  
SOCKET HEAD SCREW M5x25mm -- 6 pcs  
SOCKET HEAD SCREW M5x65mm -- 2 pcs  
LARGE SCALE TREADED INFLATABLE WHEELS Ø118mm -- 1 pair  
SOCKET HEAD SCREW M3x10mm -- 4 pcs  
WASHER d5xD12mm -- 10 pcs  
COLLAR Ø5.1mm w/ set screw -- 4 sets  
M5 NUT -- 2 pcs  
WHEEL PANTS -- 1 pair  
PLATE 26x64x1mm -- 2 pcs  
SCREW PWA3x8mm -- 4 pcs
  9. SOCKET HEAD SCREW M6x50mm -- 4 pcs  
PUSHROD Ø1.8x480mm (For Throttle) -- 1 pc.  
PLASTIC TUBE d2xD3x160mm (For Throttle) -- 1 pc.  
WASHER d6xD15mm -- 4 pcs  
M6 BLIND NUT -- 4 pcs
  10. FUEL TANK 800cc PL1111810G -- 1 set  
CABLE TIE (For Fuel Tank ) 1.5x8x500mm -- 1 pc.  
DOUBLE-SIDED TAPE 40x160mm -- 1 pc.  
INSTRUMENT PANEL -- 1 pc.
  11. LINKAGE CONNECTOR Ø2.1mm -- 2 sets
  12. SPONGE 10x80x200mm (For Radio Equipment) -- 2 pcs
  13. WIND SHIELD & SIDE WINDOWS -- 1 set  
SCREW PWA2.3x12mm -- 10 pcs  
SILICON GROMMET d1.5xD6.5mm -- 10 pcs
  14. PILOT PC001102A -- 2 sets  
SCREW PM2x12mm -- 1 pc.  
M2 NYLON INSERT LOCK NUT -- 1 pc.  
MOUNTING PLATE PL4114015 -- 1 pc.  
SEAT -- 4 pcs  
BALSA 245x239x3mm (For Pilot Stand) -- 1 pc.
  15. COWLING -- 1 set  
TRANSPARENT 3D TEMPLATE -- 1 pc.  
QUICK RELEASE NYLON RIVET PL1208042 -- 10 pcs  
SCREW KA2.3x8mm -- 10 pcs  
SCREW PA3x12mm -- 8 pcs  
GROMMET d2.5xD8.5mm PL1285035 -- 8 pcs  
WASHER d3xD7mm -- 8 pcs  
SPINNER Ø82mm -- 1 set  
SCREW PWA2.3x12mm -- 4 pcs  
AIR SCOOP -- 1 set
  16. WING TUBE Ø25.4x858mm -- 1 pc.  
WING TUBE Ø14.5x858mm -- 1 pc.  
SOCKET HEAD SCREW M3x35mm -- 1 pc.  
SOCKET HEAD SCREW M3x25mm -- 1 pc.  
SCREW PA3x35mm -- 1 pc.  
SCREW PA3x25mm -- 1 pc.  
WASHER d3xD7mm -- 4 pcs
  17. MAIN WING STRUT -- 1 pair  
SCREW PM3x16mm -- 4 pcs  
SCREW PM2x14mm -- 8 pcs  
M2 NYLON INSERT LOCK NUT -- 8 pcs  
WASHER d3xD7mm -- 12 pcs  
MAIN WING STRUT COVER -- 1 set
  18. ANTENNA -- 1 pair  
ORNAMENT -- 1 set  
SCREW PA2x12mm -- 4 pcs
  19. DECALS: A306DEC -- 1 set
- COVERING:--  
TOUGHLON STL100 WHITE  
LIGHTEX SGX 201 BLACK  
LIGHTEX SGX 580 PEARL BRONZE  
LIGHTEX SGX 350 CORSAIR BLUE  
LIGHTEX SGX 100 WHITE

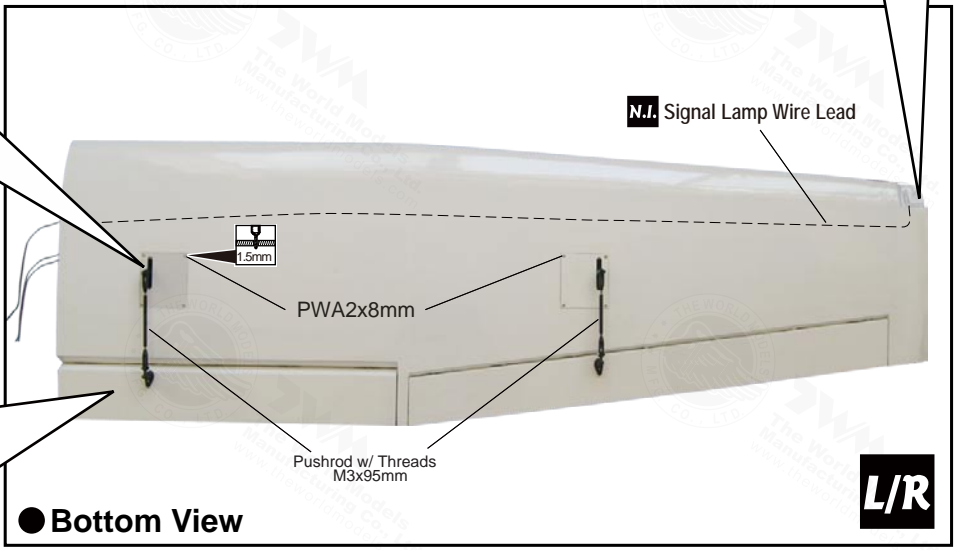
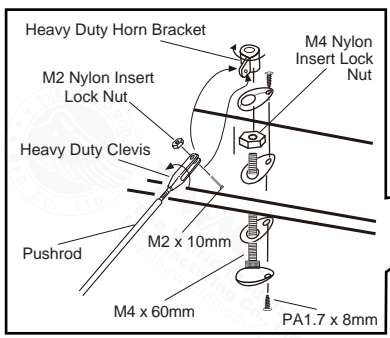
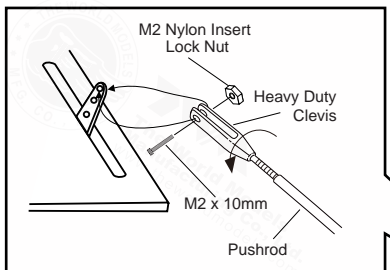
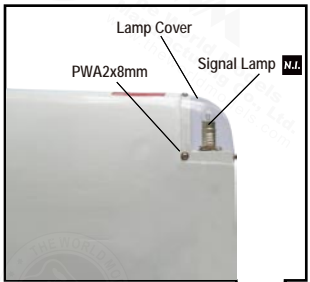
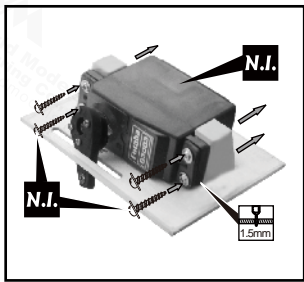
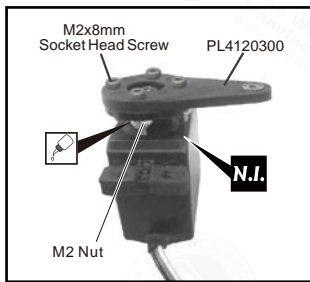
# 1 Main Wing



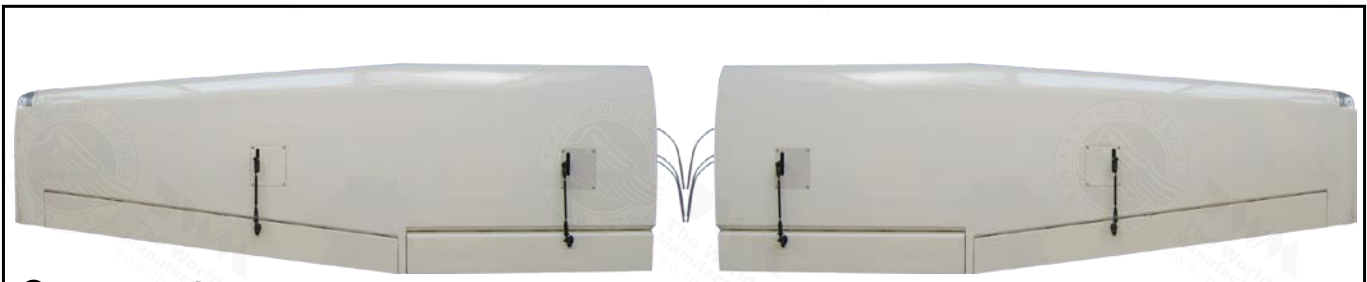
● Bottom View

# 2 Aileron & Flap Servos

- M4x60mm Socket Head Screw — 4
- PWA2x8mm Screw — 24
- M4 Nylon Insert Lock Nut — 4



● Bottom View



● Bottom View

● Completed

### 3 Stabilizer & Elevator

PA3x12mm Screw

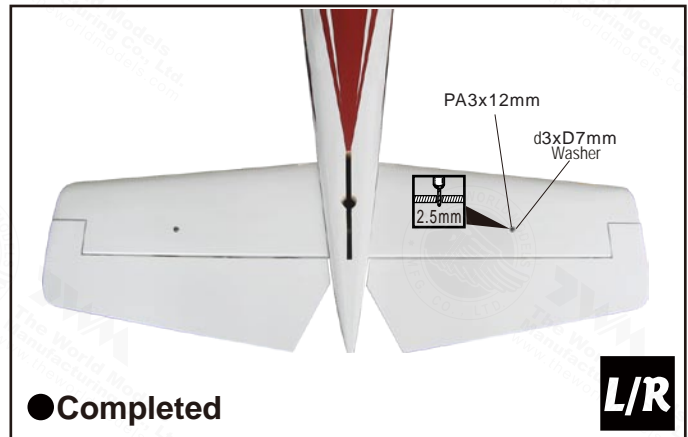
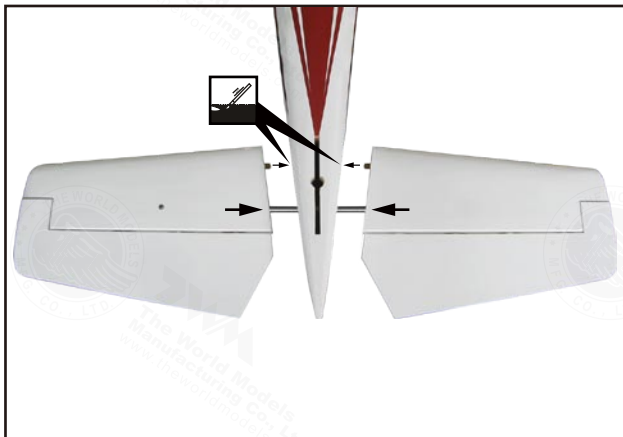
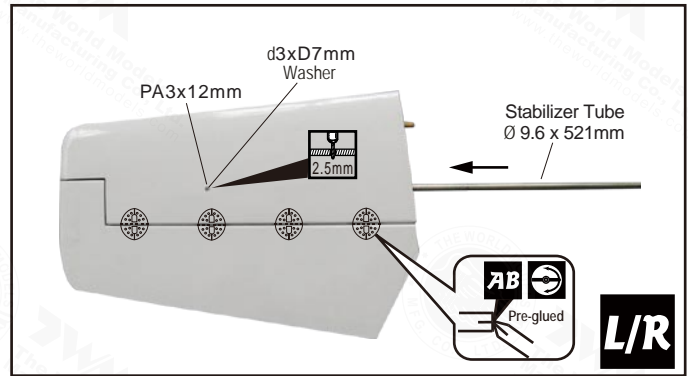


2

d3xD7mm Washer



2



### 4 Elevator Pushrod

M4x55mm Socket Head Screw

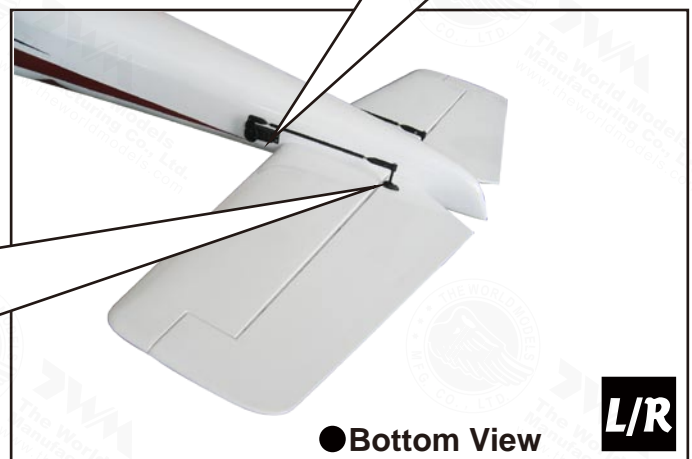
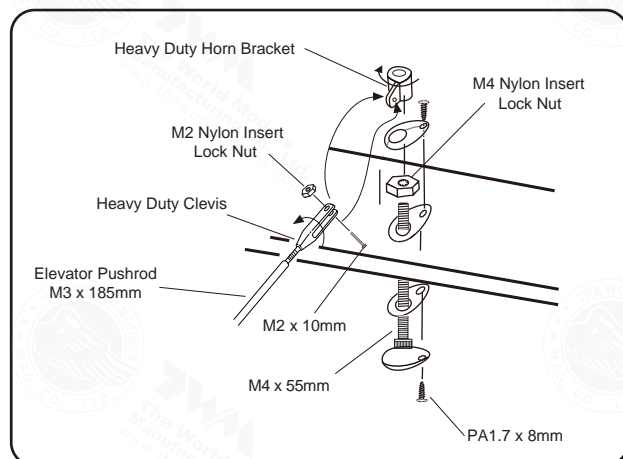
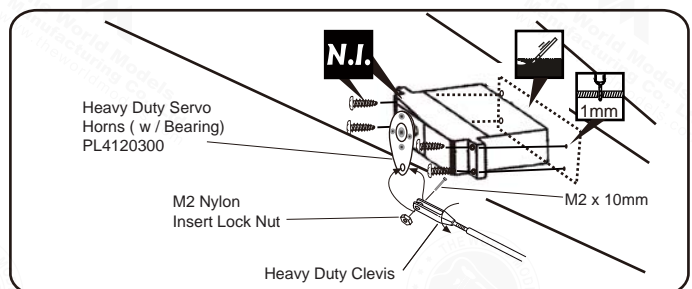


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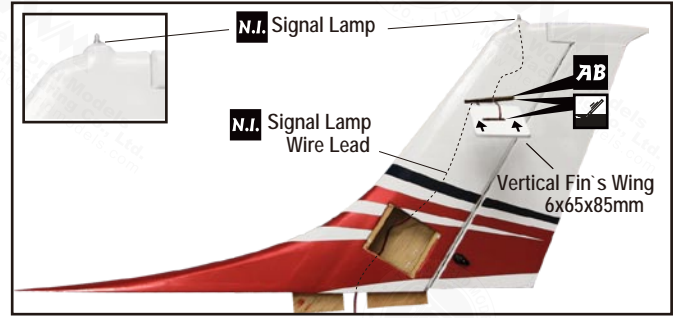
M4 Nylon Insert Lock Nut



2



## 5 Vertical Fin & Rudder



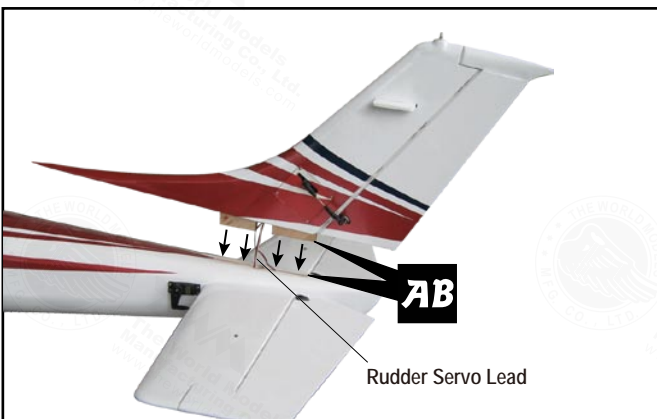
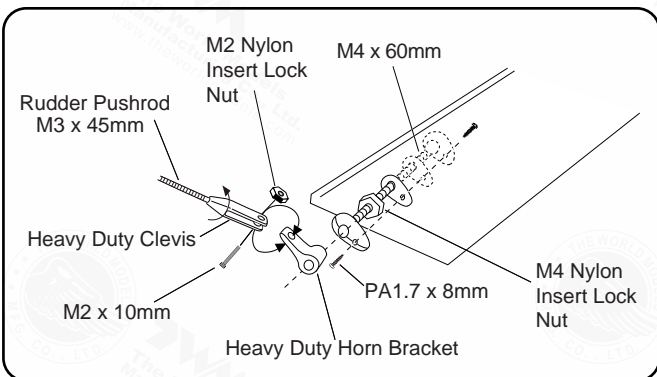
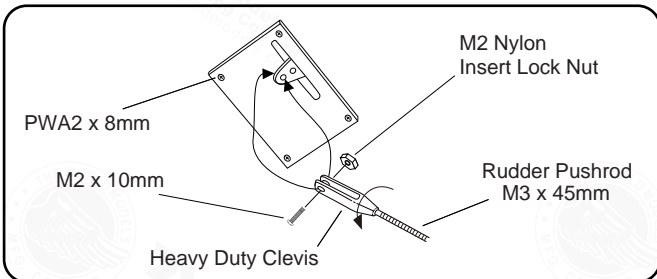
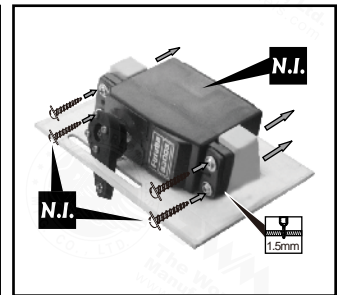
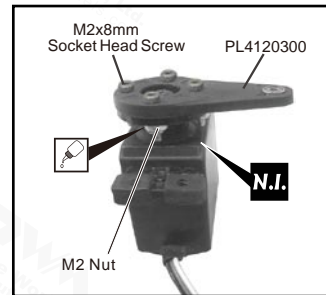
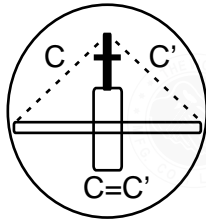
## 6 Rudder Pushrod

PWA2x8 mm Screw 4

M4x60mm Socket Head Screw 1

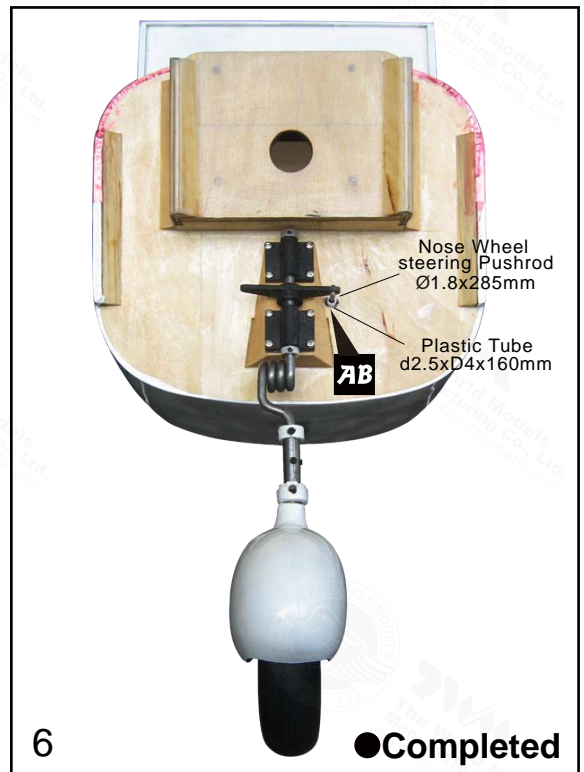
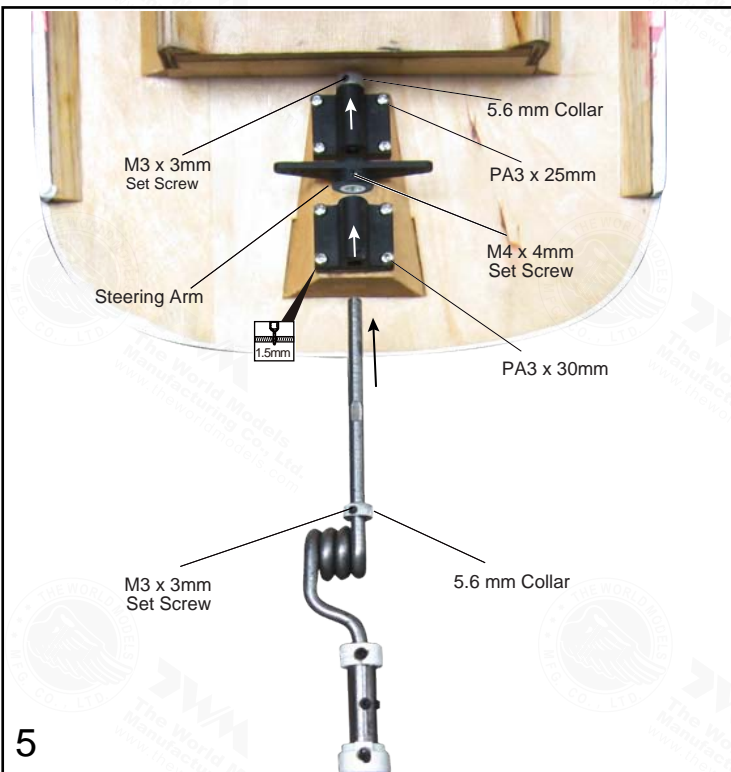
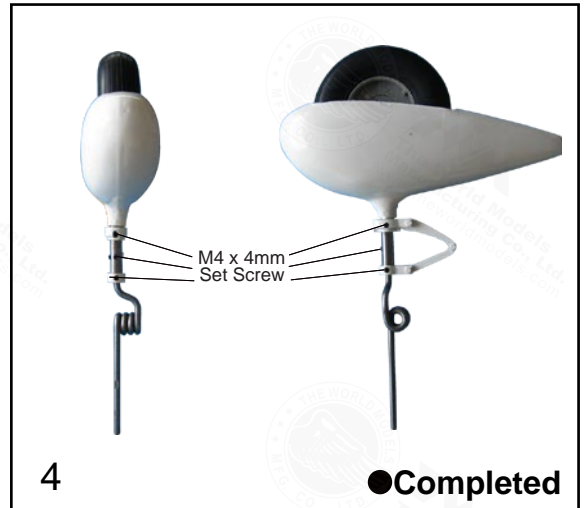
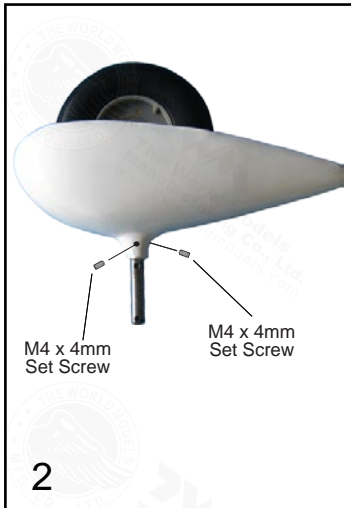
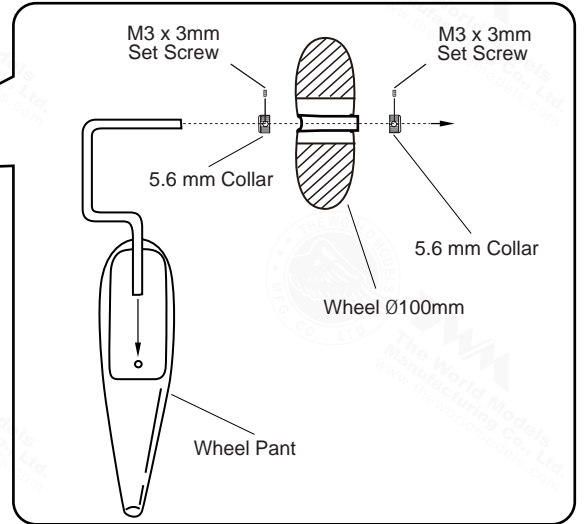
M4 Nylon Insert Lock Nut 1

M2 Nylon Insert Lock Nut 1



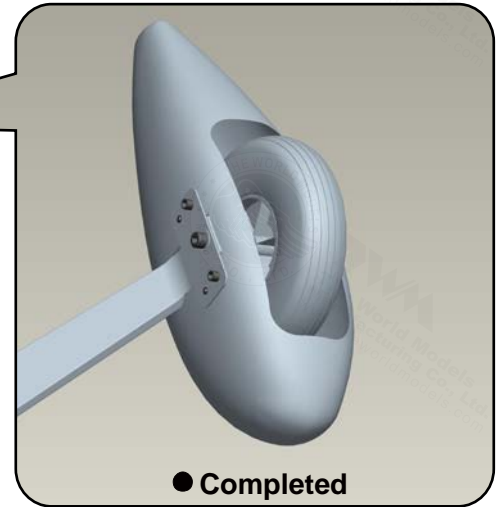
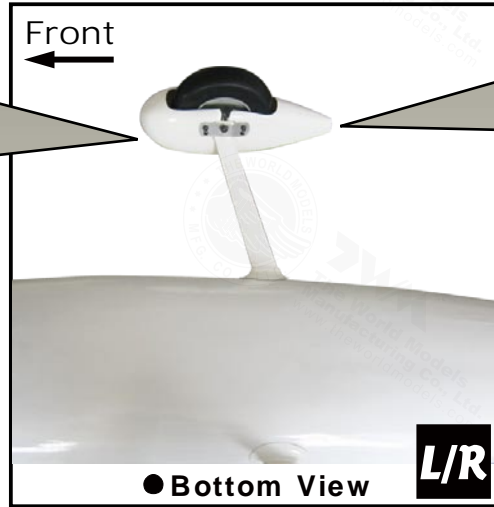
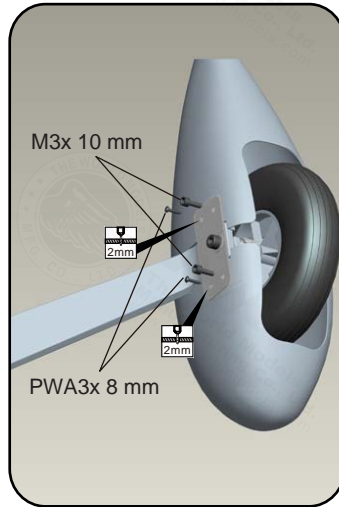
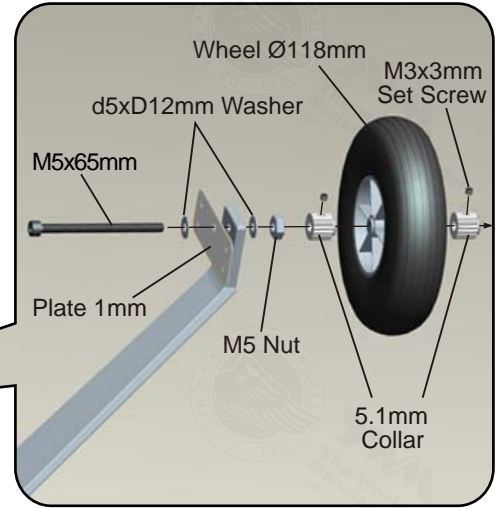
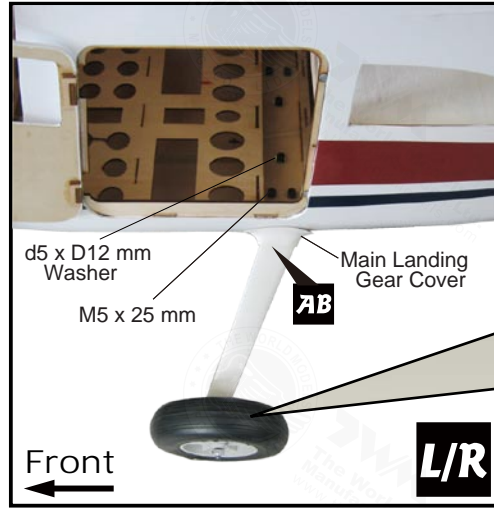
# 7 Front Landing Gear

- 5.6 mm Collar 4
- M4x4mm Set Screw 9
- PA3x25mm Screw 4
- PA3x30mm Screw 4



## 8 Main Landing Gear

M5x25mm Socket Head Screw	6
M5x65mm Socket Head Screw	2
M3x10mm Socket Head Screw	4
PWA3x8mm Screw	4
d5xD12mm Washer	10
5.1mm Collar	4
M5 Nut	2

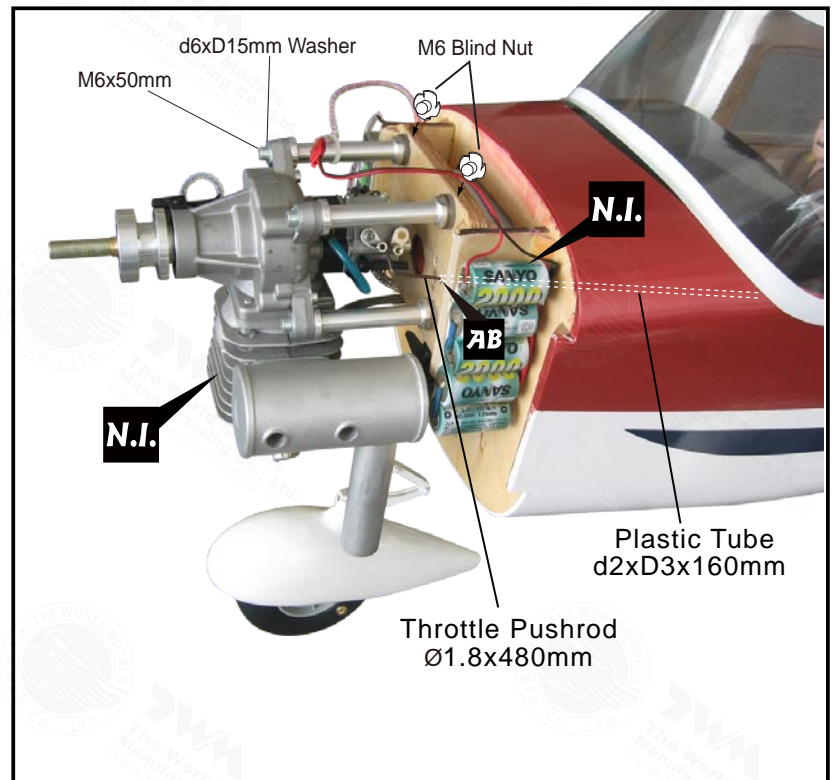


● Bottom View

● Completed

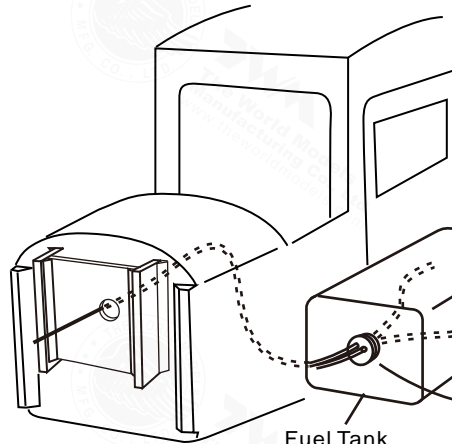
## 9 Engine

M6x50mm Socket Head Screw	4
d6xD15mm Washer	4
M6 Blind Nut	4

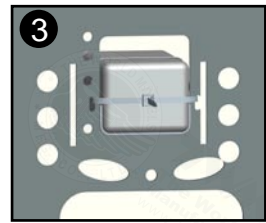
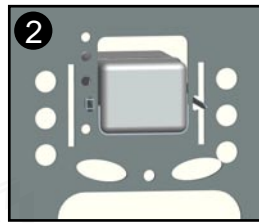
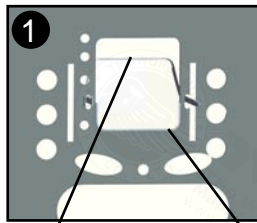




# 10 Fuel Tank

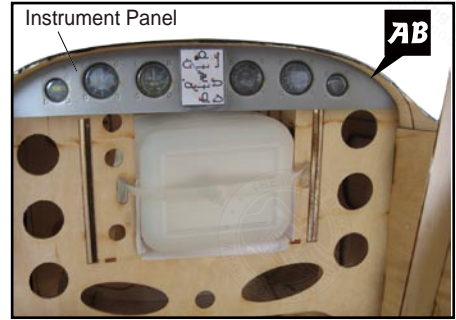
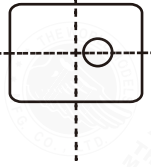


Cable Tie 1.5x8x500mm  
Double-sided Tape 40x160mm



Fuel Tank 800cc

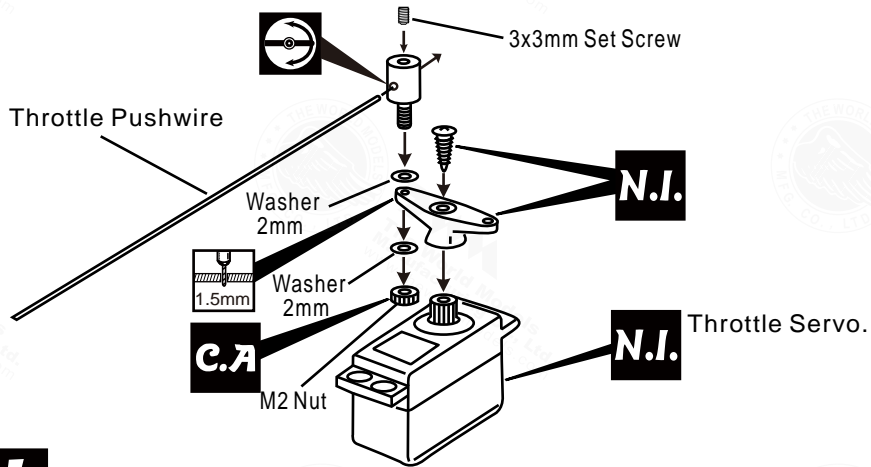
UP



●Completed

# 11 Servo Set

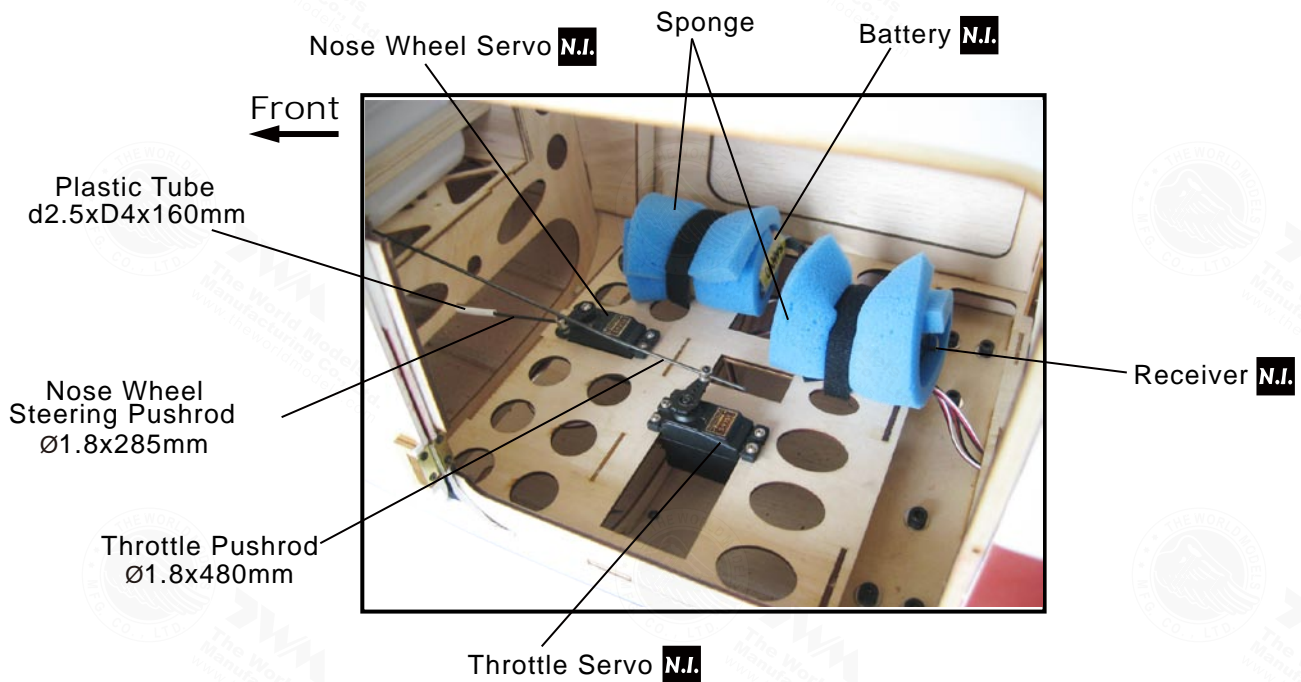
- 3x3mm Set Screw 2
- Linkage Connector 2
- M2 Nut 2
- 2mm Washer 4



Please refer to the attached sheet for linkage connector installation.

# 12 Radio Equipment

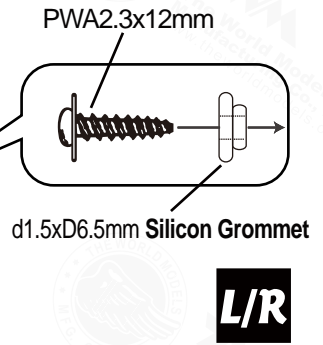
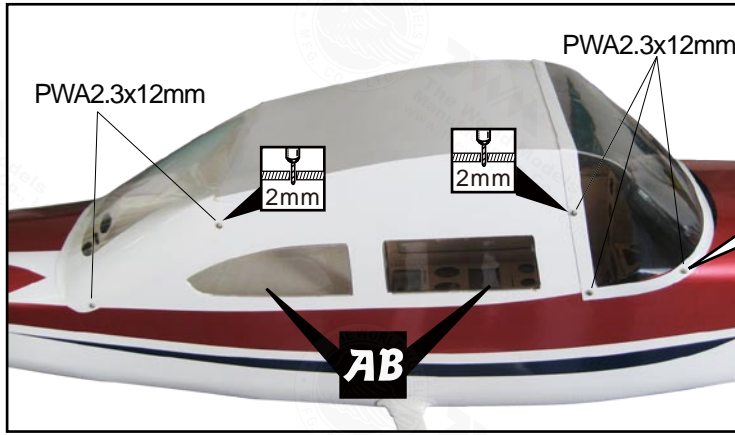
●Install and arrange the servos as shown in the diagram.



# 13 Canopy

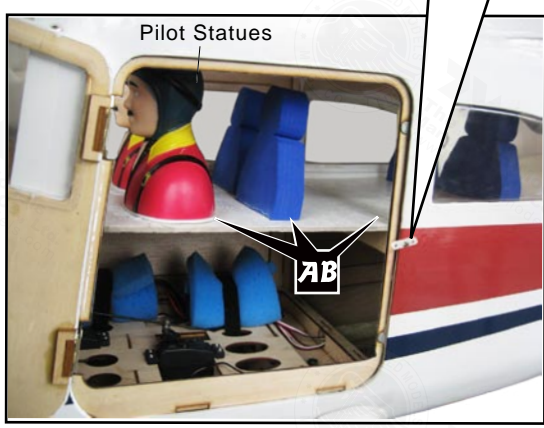
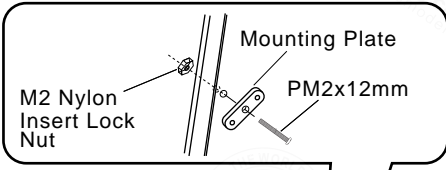
● First insert the grommet to the canopy then apply screw.

- PWA2.3x12mm Screw — 10
- d1.5xD6.5mm Silicon Grommet — 10



# 14 Pilot

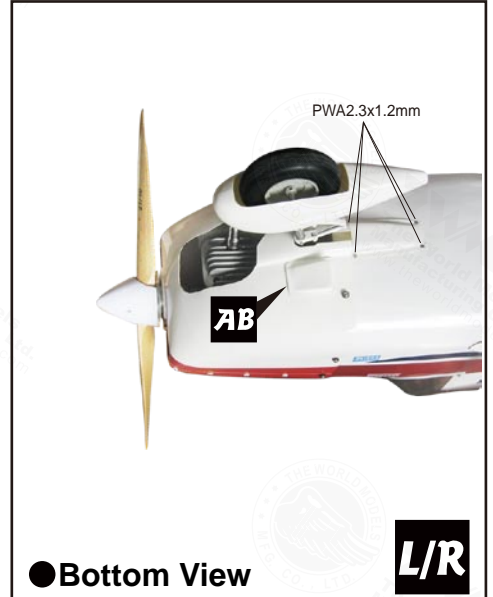
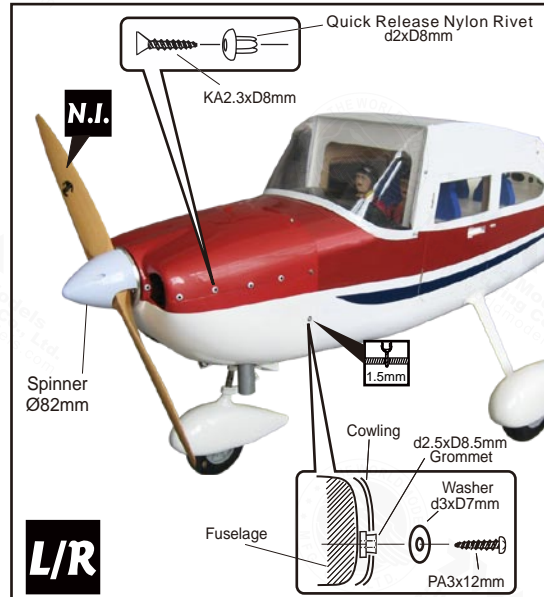
- PM2x12mm Screw — 1
- M2 Nylon Insert Lock Nut — 1



# 15 Cowling

● First insert the grommet to the cowling then apply screw.  
Please refer to the attached sheet for usage of the transparent 3D template.

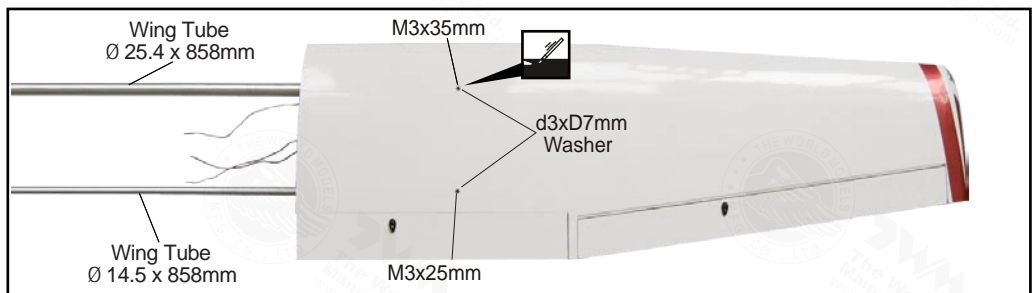
- PA3x12mm Screw — 8
- KA2.3x8mm Screw — 10
- PWA2.3x12mm Screw — 4
- d2.5x8.5mm Grommet — 8
- d3xD7mm Washer — 8
- Quick Release Nylon Rivet d2xD8mm — 10



# 16 Main Wing

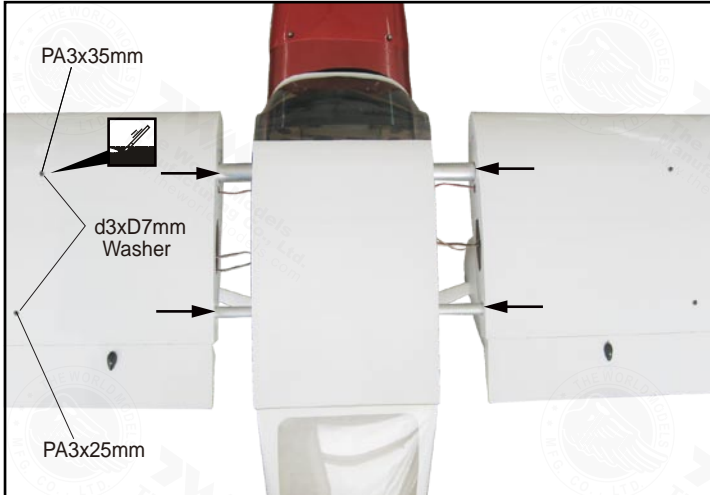
- M3x35mm Socket Head Screw — 1
- M3x25mm Socket Head Screw — 1
- PA3x35mm Screw — 1
- PA3x25mm Screw — 1
- d3xD7mm Washer — 4

Step 1. Insert the aluminum wing tube with the pre-drilled hole end into the right wing. Align the lines marked at the wing root and wing tube and apply the M3 x 35mm & M3x25mm machine screw through the pre-drilled hole on top of the wing. ( please confirm the alignment of the hole by putting a 2.5mm diameter rod through the pre-drilled wing hole before applying the screw ) The hole on the wing tube is pre-threaded, do not over tighten the M3 screw, the set up is for future removal of the wing.



Step 2. Install the right wing to the fuselage by inserting the wing tube (now attached to the right wing) through the fuselage, then install the left wing.

Step 3. Make sure the wings are resting against the fuselage tightly. Locate the pre-drilled 2.5mm hole at top of left wing, and drill along with 2.5mm drill bit until it passes through the wing tube. Apply the PA3x35mm & PA3x25mm self-tapping screw.

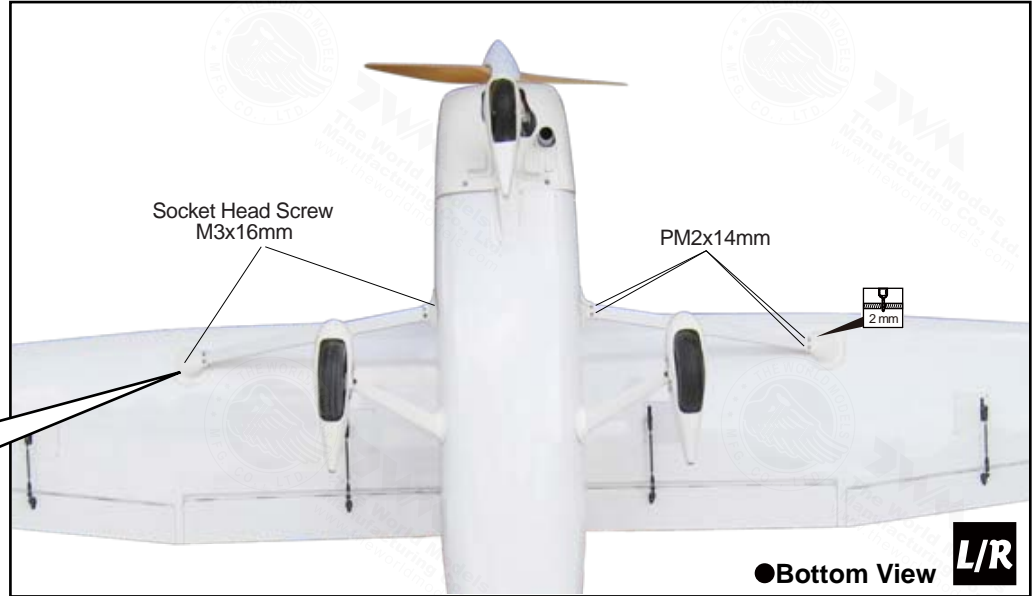
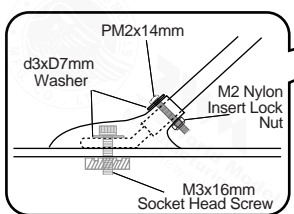


●Completed

Note : It is recommended that the wing tube stays with the left wing. Removal of the wings could be achieved by removing the right wing machine screw, the right wing then the left wing with wing tube. If removal of wing tube from left wing is also required, it is recommended that instead of applying self-tapping screw in step 3, you pre-tap with M3 thread cutter and apply M3 machine screw.


# 17 Wing Struts

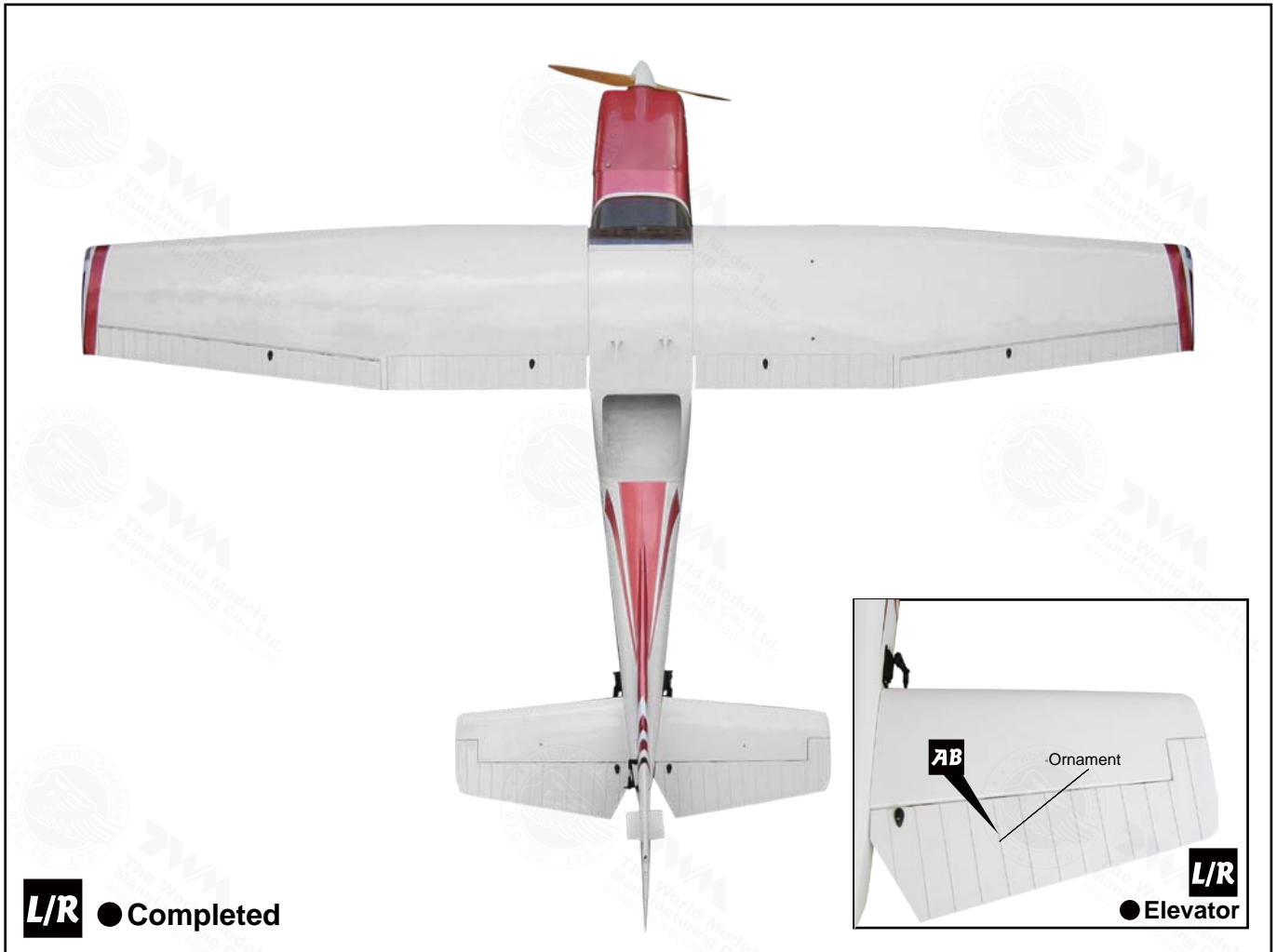
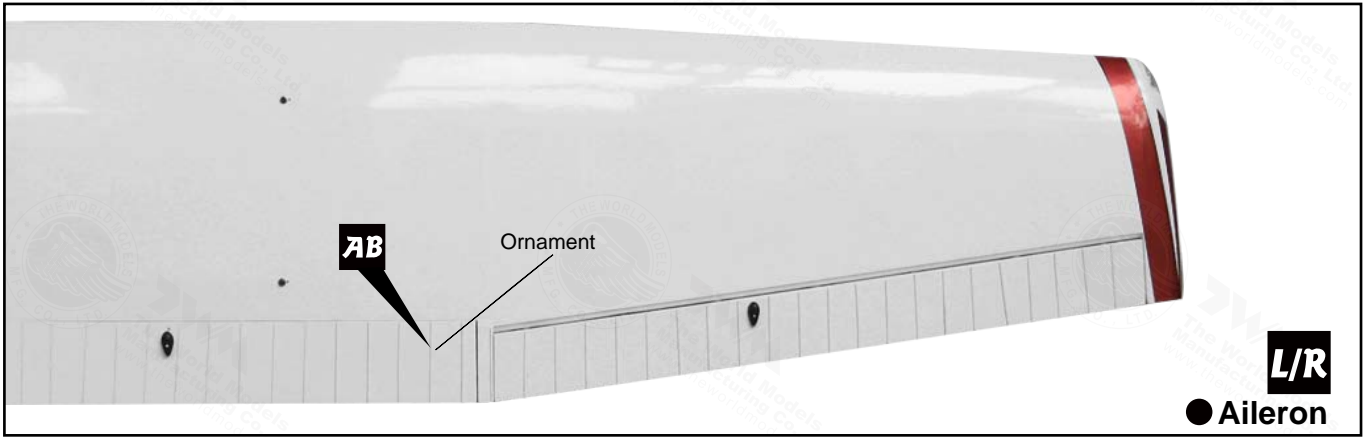
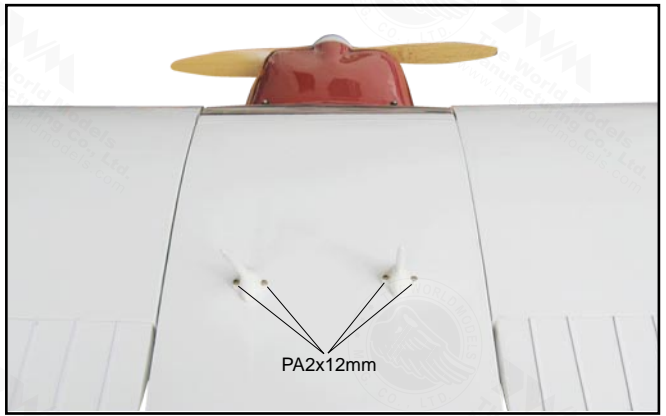
- M3x16mm Socket Head Screw — 4
- PM2x14mm Screw — 8
- M2 Nylon Insert Lock Nut — 8
- d3xD7mm Washer — 12



●Bottom View L/R

# 18 Antenna & Ornament

PA2x12mm Screw  
 4

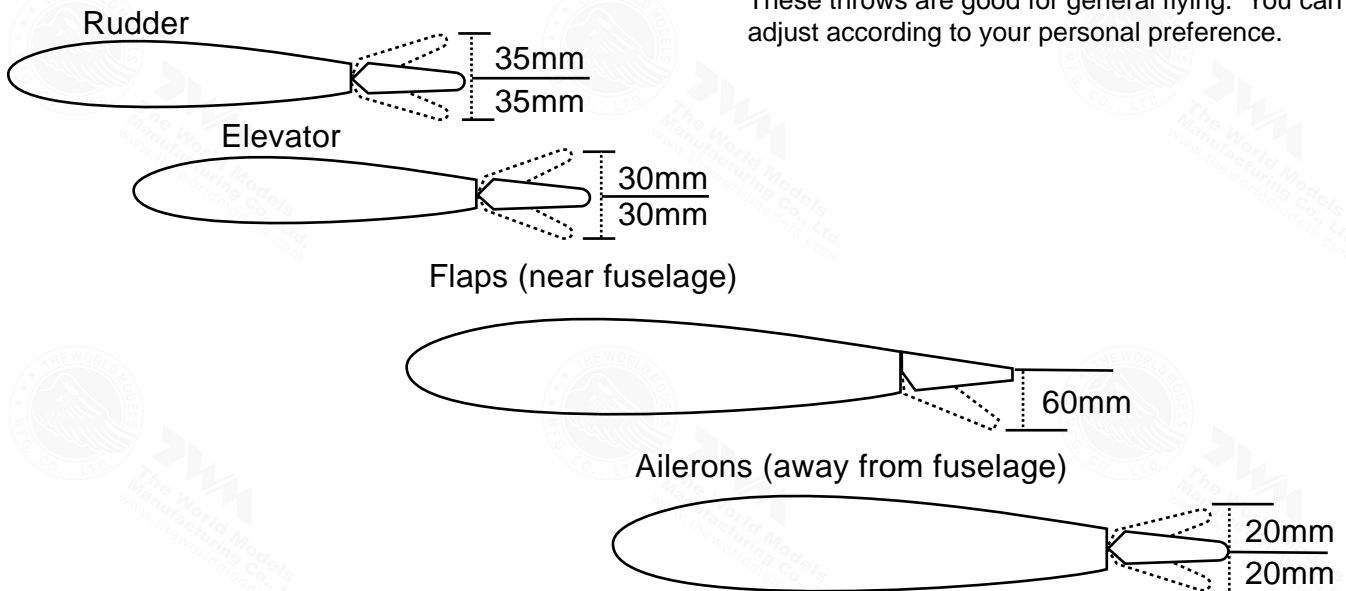


## 19 Decals



## 20 Control Throws

Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.



## 21 C.G.

The ideal C.G. position is 120mm (4.72 in.) behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.



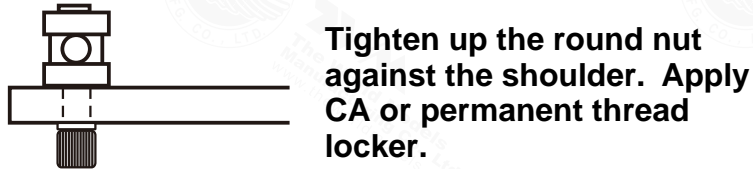
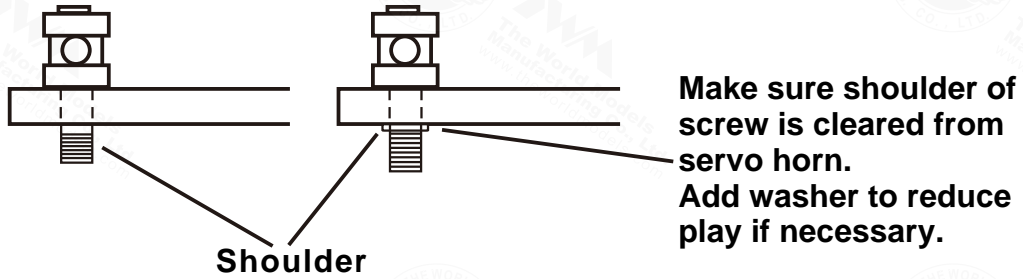
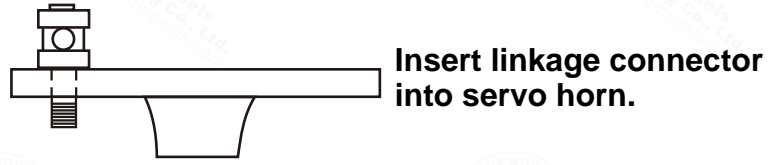
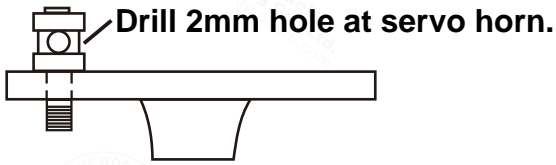
## **! Warning!**

### Important Safety Precautions

- # First time flyer should never fly by himself / herself. Assistance from experienced flyer is absolutely necessary.
- # Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.
- # **SOCC SKY LINK** is specially designed to be powered by **50 c.c. gasoline** engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause structural damage and injuries.
- # Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.
- # If you find wrinkles on the covering as a result of weather changes, you can use hot iron to remove the wrinkles. Please begin with lower temperature setting and gradually raise the temperature until the wrinkles are gone. Too hot an iron may damage the covering. Don't use hot iron near the seams or edges, hot iron will melt the glue and shrink the covering at the same time, causing the seams to pull away.
- # Check and re-tighten up all factory assembled screws, use thread locker if necessary.

# LINKAGE CONNECTOR

## HW7111050 & HW7111060



After fastening the round nut, make sure that the linkage connector can rotate freely.

## Product Registration Form (US Customers)

We would like to share with you any relevant information regarding your model, including product news and free upgrade parts when applicable. Please fill in the following and send to AirBorne Models, 4749-K, Bennett Drive, Livermore, CA 94551 USA.

1. Name: \_\_\_\_\_

2. Address: \_\_\_\_\_

3. Phone #: \_\_\_\_\_ E-mail: \_\_\_\_\_

4. Model: \_\_\_\_\_

Wing QC# \_\_\_\_\_ Fuselage QC# \_\_\_\_\_  
(QC numbers are stamped on wing and fuselage)

5. Date of Purchase: \_\_\_\_\_

6. Store Name: \_\_\_\_\_

Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.

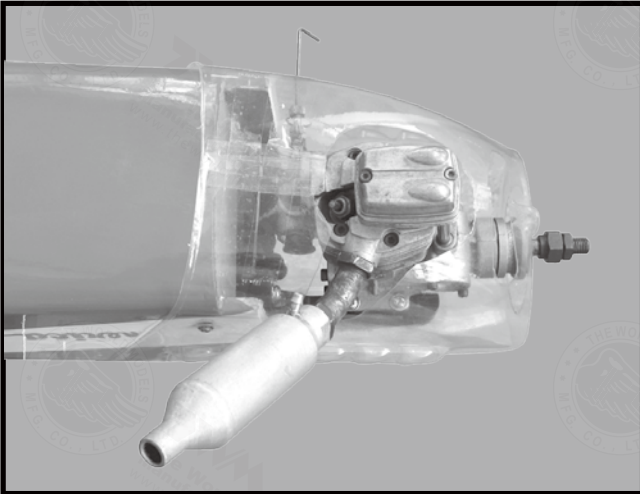


# Usage of the transparent 3D template

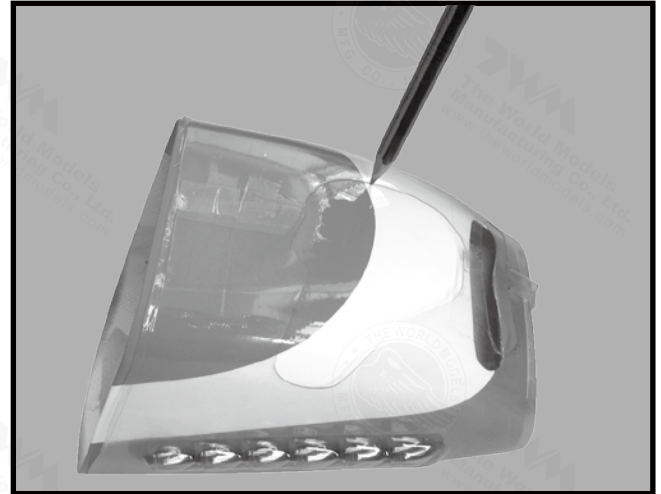


This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

1



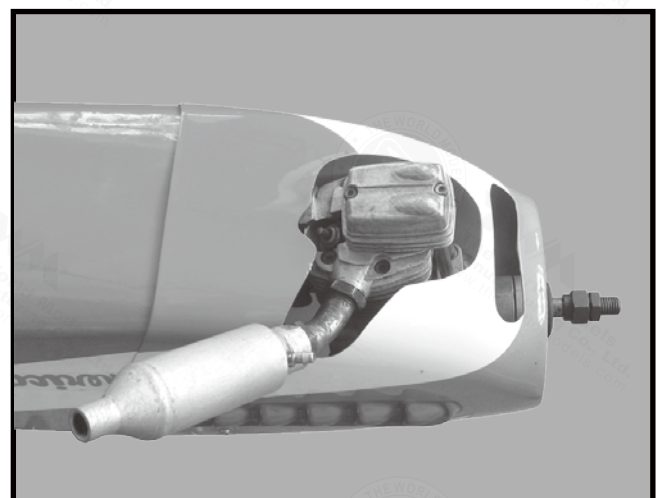
2



3



4



Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.

# Optional Parts

## ( ACCESSORIES)

### 180mm Extension

Code No.	Size	Package
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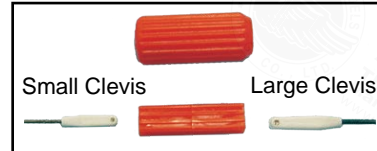
KW0011800 180mm 1 set



### Clevis Wrench

Code No.	Size	Package
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PL8210010 1 set

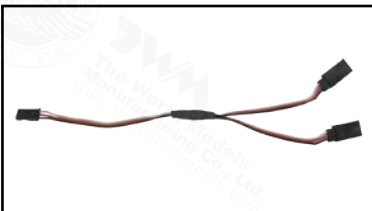


Special tool for clevis installation.  
Suitable for standard and small (EP) clevis.

### 180mm Y-Cord

Code No.	Size	Package
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KW0021800 180mm 1 pc



### Field Stand

Code No.	Size	Package
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MS9111430 600 x 240 x 310mm 1 pc



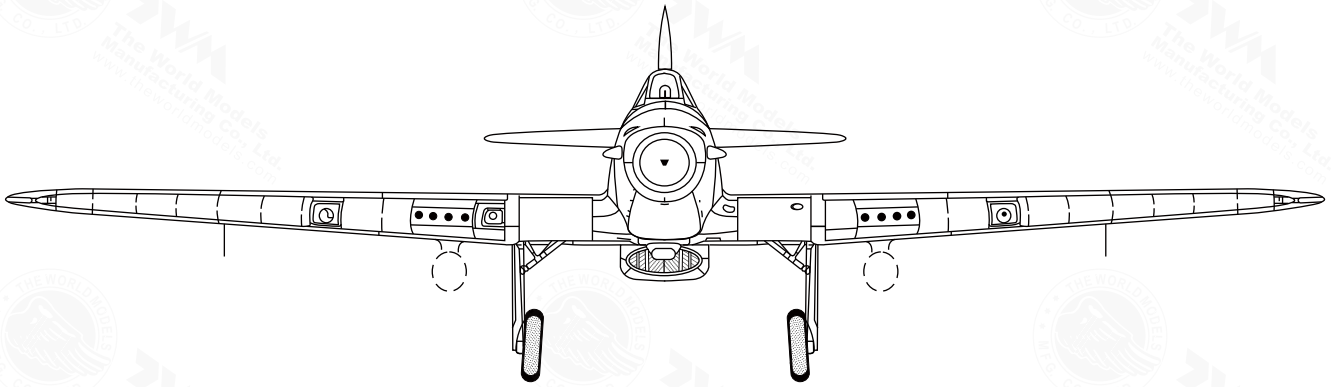
### Charge Receptacles

Code No.	Size	Package
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KP0041300







**Ducted Fan**

**Pattern**

**Warbirds**

**Funfly**

**Scale**

**Electric**

**Sports**

**Glider**

**Trainer**

**Boat**

**Accessories**

**Covering**

(Lightex / Toughlon)



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